

CLAIMS

1 1. A GPRS capable mobile terminal, comprising:
2 processing circuitry for receiving and transmitting
3 data and voice signals; and
4 QoS logic circuitry for determining an implied QoS
5 rating based upon a TLLI number received from a base
6 station.

1 2. The GPRS capable mobile terminal of claim 1
2 further comprising audio processing circuitry for
3 converting analog voice signals into communication
4 signals and for converting communication signals into
5 analog voice signals.

1 3. The GPRS capable mobile terminal of claim 2
2 further comprising a microphone coupled to provide analog
3 voice signals to the audio processing circuitry .

1 4. The GPRS capable mobile terminal of claim 2
2 further comprising a speaker coupled to receive analog
3 voice signals from the audio processing circuitry.

1 5. The GPRS capable mobile terminal of claim 1
2 wherein the QoS logic circuitry defines logic that
3 prompts the mobile terminal to transmit a previously

4 received TLLI number to a base station each time it
5 registers its presence.

1 6. The GPRS capable mobile terminal of claim 1
2 wherein the QoS logic circuitry defines logic that
3 prompts the mobile terminal to transmit a previously
4 received TLLI number to a base station each time it
5 requests resources to transmit communication signals.

1 7. The GPRS capable mobile terminal of claim 1
2 wherein the QoS logic circuitry defines logic that
3 prompts the mobile terminal to determine a QoS rating
4 assigned to it based upon a value of a received TLLI
5 number and, responsive thereto, to transmit communication
6 signals at a data rate that corresponds to the determined
7 QoS rating.

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1 8. A method in a mobile terminal for determining
2 an assigned quality of service (QoS) rating and for
3 requesting system resources, comprising:
4 receiving a temporary logical link identifier (TLLI)
5 within a Gb interface signal from a base station, which
6 TLLI was generated by a serving GPRS support node; and
7 inferring an assigned QoS rating by analyzing the
8 value of the TLLI to determine a TLLI grouping and
9 corresponding QoS rating. .

1 9. The method of claim 8 wherein the mobile
2 terminal determines that it has been assigned a first QoS
3 rating if the TLLI has an odd value and a second QoS
4 rating if the TLLI has an even value.

1 10. The method of claim 8 wherein the mobile
2 terminal determines that it has been assigned a first QoS
3 rating if the TLLI has an even value and a second QoS
4 rating if the TLLI has an odd value.

1 11. The method of claim 8 wherein the mobile
2 terminal determines that it has been assigned a first QoS
3 rating if the TLLI has a value within a first range of
4 values and a second QoS rating if the TLLI has a value in
5 a second range of values.

1 12. The method of claim 8 further including the
2 step of transmitting the received TLLI number to the base
3 station each time the mobile terminal requests a
4 communication link for transmitting communication
5 signals.

1 13. The method of claim 8 further including the
2 step of transmitting the received TLLI number to a new
3 base station each time the mobile terminal registers its
4 presence with the new base station.

1 14. A GPRS capable mobile terminal, comprising:
2 radio circuitry for transmitting and receiving
3 communication signals over a wireless medium;
4 audio circuitry for converting audio signals to
5 sound and sound signals to audio; and
6 logic circuitry for determining a quality of service
7 (QoS) rating based upon a received communication signal's
8 numerical characteristics.

1 15. The GPRS capable mobile terminal of claim 14
2 wherein the logic circuitry determines the QoS rating
3 based upon the numerical characteristics of a received
4 TLLI number.

1 16. The GPRS capable mobile terminal of claim 14
2 wherein the QoS rating is characterized by whether the
3 received communication signal's numerical characteristic
4 is even or odd.

1 17. The GPRS capable mobile terminal of claim 14
2 wherein the QoS rating is characterized by whether the
3 received communication signal's numerical characteristic
4 is within one of a plurality of groups of numbers wherein
5 each group of numbers represents a QoS rating.

1 18. The GPRS capable mobile terminal of claim 14
2 wherein the mobile terminal transmits its QoS rating to a
3 base station every time it requests communication
4 resources.

1 19. The GPRS capable mobile terminal of claim 14
2 wherein the mobile terminal transmits a number whose
3 characteristic reflects its QoS rating to a base station
4 every time it requests communication resources.

1 20. The GPRS capable mobile terminal of claim 19
2 wherein the number is a TLLI number.

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1 21. A wireless transmitter, comprising:
2 circuitry for receiving a signal comprising a number
3 reflecting a QoS rating and for determining the QoS
4 rating for wireless transmissions based upon a
5 characteristic of the number; and
6 circuitry for transmitting, over a wireless
7 communication link, a second signal comprising the number
8 reflecting the QoS rating and for determining the QoS
9 rating for wireless transmissions based upon a
10 characteristic of the number.

1 22. The wireless transmitter of claim 21 wherein
2 the number is a TLLI number.